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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of 3

Complete if Known	
Application Number	09/852,401
Filing Date	May 9, 2001
First Named Inventor	Rosenberg, Louis B.
Art Unit	2675
Examiner Name	Nguyen, Chanh Duy
Attorney Docket Number	021360-010520US

U.S. PATENT DOCUMENTS				
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
CJN	AA	US-3,220,121	11/30/1965	Cutler
	AB	US-3,517,448	06/30/1970	Conyon et al.
	AC	US-3,903,614	09/09/1975	Diamond et al
	AD	US-4,236,325	10/02/1980	Hall et al.
	AE	US-4,513,235	04/23/1985	Acklam et al.
	AF	US-4,589,070	07/08/1986	Hladky et al.
	AG	US-4,649,782	03/10/1987	Kraft
	AH	US-4,708,656	11/24/1987	De Vries et al.
	AI	US-4,713,007	12/15/1987	Alban
	AJ	US-4,891,764	01/02/1990	McIntosh
	AK	US-5,019,761	05/28/1991	Kraft
	AL	US-5,022,407	06/11/1991	Horch et al.
	AM	US-5,146,565	09/08/1992	Hollis et al
	AN	US-5,209,661	05/11/1993	Hidreth et al.
	AO	US-5,223,778	06/29/1993	Radke, et al.
	AP	US-5,240,417	08/31/1993	Smythson et al.
	AQ	US-5,271,290	12/21/1993	Fischer
	AR	US-5,275,174	01/04/1994	Cook
	AS	US-5,785,630	07/28/1998	Boblick et al.
	AT	US-B1 5,275,174 (RE)	08/04/1998	Cook

FOREIGN PATENT DOCUMENTS				
Examiner Initials <sup>3</sup>	Cite No. <sup>1</sup>	Foreign Patent Document Number <sup>4</sup> Country Code <sup>5</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
CJN	AU	WO WO01/11775	A1 02/15/2001	Peter Gold

Examiner Signature	CHANH NGUYEN	Date Considered	11/12/02
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Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
CDN	AV	ZAN et al., "Manual resolution of Compliance When Work and Force Cues are Minimized," DSC – Vol. 49, Advances In Robotics, Mechatronics and Haptic Interfaces ASME 1993, The American Society of Mechanical Engineers, pp. 99-104, (11/28-12/03/1993)		
	AW	ADELSTEIN et al., "Human Machine Interfaces for Teleoperators and Virtual Environments, NASA Conference Publication 10071, N85-14042, pp. 108-113, (03/04-09/1990)		
	AX	ADELSTEIN et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, Advances in Robotics, pp. 1-12, (1992)		
	AY	BAIGRIE, "Electric Control Loading - A Low Cost, High Performance Alternative," Proceedings, pp. 247-254, (November 6-8, 1990)		
	AZ	IWATA, "Pen-based Haptic Virtual Environment," 0-7803-1383-1/93 IEEE, pp. 287-292, (1993)		
	BA	IWATA et al., "Volume Haptization," 0-8186-4910-0/93 IEEE, pp. 18-23, (1993)		
	BB	IWATA, "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics, Vol. 24, No. 4 - ACM-0-89791-344-2/90/008/0165, pp. 165-170, (August 1990)		
	BC	RUSSO, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," MIT Libraries Archives 08/14/1990, pp. 1-131, (May 1990)		
	BD	BURDEA et al., "Dexterous telerobotics with force feedback - an overview. Part 2: Human factors," Robotics (1991) Volume 8, pp. 291-298, (06/22/1990)		
	BE	BROOKS et al., "Hand Controllers for Teleoperation - A State-of-the-Art Technology Survey and Evaluation," JPL Publication 85-11; NASA-CR-175890; N85-28569, pp. 1-84, (03/1/1985)		
	BF	JONES et al., "A perceptual analysis of stiffness," ISSN 0014-4819 Springer International (Springer-Verlag); Experimental Brain Research, Vol. 79, No. 1, pp. 150-158, (1990)		
	BG	BURDEA et al., "Distributed Virtual Force Feedback, Lecture Notes for Workshop on Force Display in Virtual Environments and its Application to Robotic Teleoperation," 1993 IEEE International Conference on Robotics and Automation, pp. 25-44, (05/02/1993)		
	BH	SNOW et al., "Compact Force-Reflecting Hand Controller," NASA TechBriefs, April, 1991, Volume 5, Number 4, p. 88, (April 1991)		
✓	BI	SNOW et al., "Model-X Force-Reflecting-Hand-Controller," NT Control No. MPO-17851; JPL Case No. 5348, pp. 1-4, (06/15/1989)		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/852,401
Sheet	3	of	3
		First Named Inventor	Rosenberg, Louis B.
		Art Unit	2675
		Examiner Name	Nguyen, Chanh Duy
		Attorney Docket Number	021360-010520US

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CN	BJ	BEJCZY et al., " Controlling Remote Manipulators Through Kinesthetic Coupling," Computers In Mechanical Engineering NT Control No. MPO-17851; JPL Case No. 5348 Attachment, pp. 48-81, (July 1983)	
	BK	TOWNSEND " Model-X Force-reflecting Hand Controller," NT Control No. MPO-17851; JPL Case No. 5348 Attachment, pp. 1-17, (08/20/1987)	
	BL	KOTOKU, " A Predictive Display with Force Feedback and Its Application to Remote Manipulation System with Transmission Time Delay," 0-7803-0737-2/92 1992 © IEEE, pp. 239-246, (07/07-10/1992)	
	BM	KOTOKU et al., " Environment Modeling for the Interactive Display (EMID) used in Telerobotic Systems," IEEE Cat. No. 91TH0375-8, pp 999-1004, (11/03-05/1991)	
	BN	HIROTA, et al., " Development of Surface Display," 0-7803-1363-1/93 © 1993 IEEE, pp. 258-262, (1993)	
	BO	OUH-YOUNG, " Force Display in Molecular Docking," Order No. 0034744, p. 1-369, (1990)	
	BP	TADROS, " Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators, MIT Archive © Massachusetts Institute of Technology, pp. 1-88, (February 1990)	
	BQ	CALDWELL et al., " Enhanced Tactile Feedback (Tele-Taction) Using a Multi-Functional Sensory System," 1050-4729/93, pp. 855-860, (1993)	
	BR	ADELSTEIN, " Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, Advances in Robotics, Edited by H. Kazerooni, pp. 1-12, (1992)	
	BS	GOTOW et al., " Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback," WA11-11:DD, pp. 332-337	
	BT	STANLEY et al., " Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel Processors," DSC-Vol. 42, Advances in Robotics, pp. 55-61, (1992)	
	BU	RUSSO, " Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices," DSC-Vol. 42, Advances in Robotics, pp. 63-70, (1992)	
	BV	FUKUMOTO et al., " Active Click: Tactile Feedback for Touch Panels," NTT DoCoMo CHI 2001, pp. 1-3, (April 2001)	
	BW	WRIGHT, " A Manufacturing Hand," ISSN 0738-5845/85 (704), pp. 13-23, (1985)	

Examiner Signature	CHANH NGUYEN	Date Considered	11/12/02
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Application Number	09/852,401
Filing Date	May 9, 2001
First Named Inventor	Rosenberg, Louis B.
Art Unit	2675
Examiner Name	Nguyen, Chanh Duy

Attorney Docket Number

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U.S. PATENT DOCUMENTS				
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
CPN		3,157,853	11/17/1964	Hirsch
		3,497,668	2/24/1970	Hirsch
		3,902,687	6/25/1973	Hightower
		4,160,508	7/10/1979	Salsbury
		4,581,491	4/8/1986	Boothroyd
		4,930,770	6/5/1990	Baker
		4,934,694	6/19/1990	McIntosh
		5,035,242	7/30/1991	Franklin
		5,038,089	8/6/1991	Szakaly
		5,078,152	1/7/1992	Bond
		5,299,810	4/5/1994	Pierce
		5,309,140	5/3/1994	Everett
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		6,422,941	7/23/2002	Thorner et al.

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
CPN	BI	EP EP0349086	1/3/1990	Visser	

Examiner Signature	CHANH NGUYEN	Date Considered	12/11/02
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## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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CJN		KONTARINIS et al., "Display of High-Frequency Tactile Information to Teleoperators," Telemanipulator Technology and Space Telerobotics, Won S. Kim, Editor, Proc. SPIE Vol. 2057, pp. 40-50, Sep. 7-9, 1993.
		PATRICK et al., "Design and Testing of A Non-reactive, Fingertip, Tactile Display for Interaction with Remote Environments," Cooperative Intelligent Robotics in Space, Rui J. deFigueiredo et al., Editor, Proc. SPIE Vol. 1387, pp. 215-222, 1990.
		ADELSTEIN, "A Virtual Environment System For The Study of Human Arm Tremor," Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989.
		BEJCZY, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," Science, Vol. 208, No. 4450, pp. 1327-1335, 1980.
		BEJCZY, "Generalization of Bilateral Force-Reflecting Control of Manipulators," Proceedings Of Fourth CISM-IFTOMM, Sep. 8-12, 1981.
		MCAFEE, "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual," JPL D-5172, pp. 1- 50, A1-A36, B1-B5, C1-C36, January 1988.
		MINSKY, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," Ph.D. Dissertation, MIT, June 1995.
		JACOBSEN et al., "High Performance, Dextrous Telerobotic Manipulator With Force Reflection," Intervention/ROV '91 Conference & Exposition, Hollywood, Florida, May 21-23, 1991.
		SHIMOGA, "Finger Force and Touch Feedback Issues in Dexterous Telemanipulation," Proceedings of Fourth Annual Conference on Intelligent Robotic Systems for Space Exploration, Rensselaer Polytechnic Institute, Sep. 30 - Oct. 1, 1992.
		IBM Technical Disclosure Bulletin, "Mouse Ball-Actuating Device With Force and Tactile Feedback," Vol. 32, No. 9B, February 1990.
		TERRY et al., "Tactile Feedback In A Computer Mouse," Proceedings of Fourteenth Annual Northeast Bioengineering Conference, University of New Hampshire, March 10-11, 1988.
		HOWE, "A Force-Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation," Proceedings of the 1992 IEEE International Conference on Robotics and Automation, Nice, France, May 1992.
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↓		RABINOWITZ et al., "Multidimensional tactile displays: Identification of vibratory intensity, frequency, and contactor area," Journal of The Acoustical Society of America, Vol. 82, No. 4, October 1987.

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CON		BEJCZY et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," International Computer Technology Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980.
		BEJCZY et al., "A Laboratory Breadboard System For Dual-Arm Teleoperation," SOAR '89 Workshop, JSC, Houston, TX, July 25-27, 1989.
		OUH-YOUNG, "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995.
		MARCUS, "Touch Feedback in Surgery," Proceedings of Virtual Reality and Medicine The Cutting Edge, Sep. 8-11, 1994.
✓		BEJCZY, et al., "Universal Computer Control System (UCCS) For Space Telerobots," CH2413-3/87/0000/0318501.00 1987 IEEE, 1987.

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